



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6
HOUSTON BRANCH
10625 FALLSTONE RD.
HOUSTON, TEXAS 77099

PAGE ONE

2008 APR -2 PM 2:38

SUPERFUND DIV.
REMEDIAL BRANCH
(6SF-R)

March 26, 2008

MEMORANDUM

SUBJECT: Contract Laboratory Program Data Review

FROM: *Marvelyn Humphrey*, ESAT Regional Project Officer
Environmental Services Branch (6MD-HE)

TO: Gary Baumgarten, Superfund Project Manager (6SF-RA)

Site : JONES ROAD GROUND WATER PLUME

Case#: 37210

SDG#: F2Q05

The EPA Region 6 Environmental Services Branch ESAT data review team has completed a review of the submitted Contract Laboratory Program (CLP) data package for the referenced site. The samples analyzed and reviewed are detailed in the attached Regional data review report.

Please note that the vinyl chloride result in sample F2Q19 is qualified as unusable because of an extremely low VDMC1 recovery.

If you have any questions regarding the data review report, please contact me at (281) 983-2140.



827204

ENVIRONMENTAL SERVICES ASSISTANCE TEAM

ESAT Region 6
10625 Fallstone Road
Houston, TX 77099

Alion Science and Technology

MEMORANDUM

DATE: March 25, 2008

TO: Marvelyn Humphrey, ESAT PO, Region 6 EPA

FROM: Linda Hoffman, Data Reviewer, ESAT *J*

THRU: Dominic G. Jarecki, ESAT Program Manager, ESAT *DG*

SUBJECT: CLP Data Review

Contract No.:	EP-W-06-030
TO No.:	002
Task/Sub-Task:	2-11
ESAT Doc. No.:	7002-211-0180
TDF No.:	6-08-115A
ESAT File No.:	0-0257

Attached is the data review summary for Case # 37210

SDG # F2Q05
Site Jones Road Ground Water Plume

COMMENTS:

I. LEVEL OF DATA REVIEW

Modified CADRE Review was performed for this package.

II. CONTRACTUAL ASSESSMENT OF THE DATA PACKAGE

The CCS and hardcopy review found the data package contractually compliant.

III. TECHNICAL USABILITY ASSESSMENT OF THE DATA PACKAGE

Two samples had poor DMC performance. The vinyl chloride result for sample F2Q19 was unusable because the recovery for VDMC1 was very low (<20%).

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
 REGION 6
 HOUSTON BRANCH
 10625 FALLSTONE ROAD
 HOUSTON, TEXAS 77099
 ORGANIC REGIONAL DATA ASSESSMENT

CASE NO.	37210	SITE	Jones Road Ground Water Plume
LABORATORY	KAP	NO. OF SAMPLES	20
CONTRACT#	EP-W-05-032	MATRIX	Water
SDG#	F2Q05	REVIEWER (IF NOT ESB)	ESAT
SOW#	SOM01.2	REVIEWER'S NAME	L. Hoffman
SF#	302DD2CNK	COMPLETION DATE	March 25, 2008

SAMPLE NO.	F2Q05	F2Q20	F2Q37	F2Q46	F2QJ3
	F2Q06	F2Q21	F2Q39	F2Q56	F2QK7
	F2Q12	F2Q22	F2Q40	F2Q57	F2QN1
	F2Q19	F2Q26	F2Q45	F2Q98	F2QN2

DATA ASSESSMENT SUMMARY

TVOA

1. HOLDING TIMES	O
2. GC/MS TUNE/INSTR. PERFORM.	O
3. CALIBRATIONS	O
4. BLANKS	O
5. DMC/SURROGATES	M
6. MATRIX SPIKE/DUPLICATE/LCS	M
7. OTHER QC	O
8. INTERNAL STANDARDS	O
9. COMPOUND ID/QUANTITATION	O
10. PERFORMANCE/COMPLETENESS	O
11. OVERALL ASSESSMENT	M

O = Data had no problems.

M = Data qualified because of major or minor problems.

Z = Data unacceptable.

NA = Not applicable.

ACTION ITEMS:

AREA OF CONCERN: Samples F2Q19 and F2Q21 had outlying DMC recoveries. A very low recovery (<20%) for VDMC1 for sample F2Q19 resulted in an unusable vinyl chloride result. The MS/MSD recoveries were below the QC limits for benzene and trichloroethene.

NOTABLE PERFORMANCE:

**COMMENTS/CLARIFICATIONS
REGION 6 CLP QA REVIEW**

CASE 37210 SDG F2Q05 SITE Jones Road Ground Water Plume LAB KAP.

COMMENTS: This SDG consisted of 20 water samples for TVOA analysis following SOW SOM01.2. The OTR/COC Records designated sample F2Q45 for laboratory QC analyses, sample F2QK7 as a trip blank, and sample F2QJ3 as a field blank. The samples in this SDG were also associated with field blank samples F2QJ2 (SDG F2Q07), F2QJ4 (SDG F2PW6), and F2QJ5 (SDG F2QN4) and/or trip blank sample F2QK9 (SDG F2QN4). The RSCC personnel confirmed that samples F2Q12/F2QN1 and F2Q98/F2QN2 were field duplicate pairs.

The target compounds of concern with the user's desired detection limits in parentheses are vinyl chloride (2 µg/L), cis/trans-1,2-dichloroethenes (7 µg/L), and tetrachloroethene (5 µg/L). All samples met the user's desired detection limit criteria except the vinyl chloride result for sample F2Q19 that was qualified as unusable because of an extremely low recovery for VDMC1.

Tetrachloroethene in sample F2Q19 was the only target compound of concern detected at a concentration above the user's desired detection limit. Concentrations of cis-1,2-dichloroethylene and tetrachloroethene were above the CRQL's in samples F2Q19 and F2Q22, respectively.

Modified CADRE Review was performed for this package as requested by the Region. For this review option, the CCS and CADRE primarily determine the laboratory contractual compliance and the technical usability of the sample results, respectively. The raw data review is limited to that performed by CADRE on the staged electronic data deliverables (SEDD). The reviewer performs supplemental hardcopy forms checking and applies Region 6 guidelines, where necessary, to account for known limitations of the electronic review process. Therefore, the reviewer's final assessments may deviate from those found in the CADRE report. The CADRE narrative for the SDG is attached to this report as an addendum for additional information.

DATA ASSESSMENT: The QC problems affecting data usability are addressed below.

- The following results are qualified as indicated because of poor DMC performance.

The vinyl chloride result for sample F2Q19 was qualified as unusable because of a very low (<20%) VDMC1 recovery.

The dichlorodifluoromethane, chloromethane, vinyl chloride, bromomethane, chloroethane, and carbon disulfide results for sample F2Q21 were qualified as estimated because of low recoveries for VDMC's 1 and 2.

**ORGANIC QA REVIEW
CONTINUATION PAGE**

CASE 37210 SDG F2Q05 SITE Jones Road Ground Water Plume LAB KAP

- The benzene and trichloroethene results for QC sample F2Q45 were qualified as estimated because the MS/MSD recoveries were below the QC limits for these two compounds.

OVERALL ASSESSMENT: Some results were qualified for samples F2Q19, F2Q21, and F2Q45 because of DMC and MS/MSD performance problems. ESAT's final data qualifiers in the Data Summary Table (DST) indicate the technical usability of all reported sample results. An Evidence Audit was conducted for the Complete Sample Delivery Group File (CSF), and the audit results were reported on the Evidence Inventory Checklist.

ORGANIC ACRONYMS

%D	Percent Difference
%RSD	Percent Relative Standard Deviation
ARO	Aroclors
BFB	4-Bromofluorobenzene
BNA	Base/Neutral and Acid
CADRE	Computer-Aided Data Review and Evaluation
CCS	Contract Compliance Screening
CCV	Continuing Calibration Verification
CF	Calibration Factor
CRQL	Contract Required Quantitation Limit
CSF	Complete SDG File
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenylphosphine
DMC	Deuterated Monitoring Compound
DST	Data Summary Table
GC/ECD	Gas Chromatograph/Electron Capture Detector
GC/MS	Gas Chromatograph/Mass Spectrometer
GPC	Gel Permeation Chromatography
IC	Initial Calibration
INDA(B,C)	Individual Standard Mixture A(or B or C)
IS	Internal Standard
LCS	Laboratory Control Sample
LMVOA	Low/Medium Volatile Organic Analysis
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NFG	National Functional Guidelines
OTR/COC	Organic Traffic Report/Chain of Custody
PAH	Polynuclear Aromatic Hydrocarbon
PE	Performance Evaluation
PEM	Performance Evaluation Mixture
PEST	Pesticides
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
RIC	Reconstructed Ion Chromatogram
RPD	Relative Percent Difference
RRF	Relative Response Factor
RRT	Relative Retention Time
RSCC	Regional Sample Control Center
RT	Retention Time
SDG	Sample Delivery Group
SDMC	Semivolatile Deuterated Monitoring Compound
SIM	Selected Ion Monitoring
SMO	Sample Management Office
SOW	Statement of Work
SQL	Sample Quantitation Limit
SVOA	Semivolatile Organic Analysis
TCL	Target Compound List
TCX	Tetrachloro-m-xylene
TIC	Tentatively Identified Compound
TVOA	Trace Volatile Organic Analysis
VDMC	Volatile Deuterated Monitoring Compound
VOA	Volatile Organic Analysis

HEADER DEFINITIONS FOR ORGANIC EXCEL DST

CASE: Case Number
SDG: SDG Number
EPASAMP: EPA Sample Number
LABID: Laboratory File/Sample ID
MATRIX: Sample Matrix
ANDATE: Sample Analysis Date
ANTIME: Sample Analysis Time
CASNUM: Compound CAS Number
ANALYTE: Compound Name
CONC: Compound Concentration
VALDQAL: Region 6 Organic Data Validation Qualifier (see Organic Data Qualifier Definitions on the next page)
UNITS: Concentration Units
ADJCRQL: Adjusted Contract Required Quantitation Limit Value
SMPDATE: Sampling Date
STATLOC: Station Location

Disclaimer: ESAT verified the accuracy of the information reported in the Excel DST only for the following data fields: CASE, SDG, EPASAMP, MATRIX, ANALYTE, CONC, UNITS, VALDQAL, and ADJCRQL. The data qualifiers in the VALDQAL column indicate the technical usability of the reported results.

ORGANIC DATA QUALIFIER DEFINITIONS

The following definitions provide brief explanations of the ESAT-Region 6 qualifiers assigned to results in the Data Summary Table.

- U** Not detected at reported quantitation limit.
- N** Identification is tentative.
- J** Estimated value.
- L** Reported concentration is below the CRQL.
- M** Reported concentration should be used as a raised quantitation limit because of interferences and/or laboratory contamination.
- R** Unusable.
- ^** High biased. Actual concentration may be lower than the concentration reported.
- V** Low biased. Actual concentration may be higher than the concentration reported.
- F+** A false positive exists.
- F-** A false negative exists.
- UJ** Estimated quantitation limit.
- T** Identification is questionable because of absence of other commonly coexisting pesticides.
- C** Identification of pesticide or aroclor has been confirmed by Gas Chromatography/Mass Spectrometer (GC/MS).
- X** Identification of pesticide or aroclor could not be confirmed by GC/MS when attempted.
- *** Result not recommended for use because of associated QA/QC performance inferior to that from other analysis.

37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	106-93-4	1,2-Dibromoethane	0.50	U	UG/L	0.50	02/08/2008	TH11620A
37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	108-90-7	Chlorobenzene	0.50	U	UG/L	0.50	02/08/2008	TH11620A
37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	100-41-4	Ethylbenzene	0.50	U	UG/L	0.50	02/08/2008	TH11620A
37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	95-47-6	o-Xylene	0.50	U	UG/L	0.50	02/08/2008	TH11620A
37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	179601-23-1	m,p-Xylene	0.50	U	UG/L	0.50	02/08/2008	TH11620A
37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	100-42-5	Styrene	0.50	U	UG/L	0.50	02/08/2008	TH11620A
37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	75-25-2	Bromoform	0.50	U	UG/L	0.50	02/08/2008	TH11620A
37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	98-82-8	Isopropylbenzene	0.50	U	UG/L	0.50	02/08/2008	TH11620A
37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	UG/L	0.50	02/08/2008	TH11620A
37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	541-73-1	1,3-Dichlorobenzene	0.50	U	UG/L	0.50	02/08/2008	TH11620A
37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	106-46-7	1,4-Dichlorobenzene	0.50	U	UG/L	0.50	02/08/2008	TH11620A
37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	95-50-1	1,2-Dichlorobenzene	0.50	U	UG/L	0.50	02/08/2008	TH11620A
37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	96-12-8	1,2-Dibromo-3-chloropropane	0.50	U	UG/L	0.50	02/08/2008	TH11620A
37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	120-82-1	1,2,4-Trichlorobenzene	0.50	U	UG/L	0.50	02/08/2008	TH11620A
37210	F2Q05	F2QN2	S-0809.15 W	02/15/2008 04:44:00	87-61-6	1,2,3-Trichlorobenzene	0.50	U	UG/L	0.50	02/08/2008	TH11620A

INORGANIC/ORGANIC COMPLETE SDG FILE (CSF) INVENTORY CHECKLIST

Case No. 37210 SDG No. F2Q05 SDG Nos. To Follow Mod. Ref No. Date Rec 02/26/08

EPA Lab ID: KAP		ORIGINALS			YES	NO	N/A
Lab Location: The Woodlands, TX		CUSTODY SEALS					
Region: 6	Audit No.: 37210/F2Q05	1. Present on package?			X		
Re_Submitted CSF?	Yes _____ No _____ X	2. Intact upon receipt?			X		
Box No(s): 1	FORM DC-2						
COMMENTS:		3. Numbering scheme accurate?			X		
		4. Are enclosed documents listed?			X		
		5. Are listed documents enclosed?			X		
		FORM DC-1					
		6. Present?			X		
		7. Complete?			X		
		8. Accurate?			X		
		TRAFFIC REPORT /CHAIN-OF-CUSTODY RECORD(s)					
		9. Signed?			X		
		10. Dated?			X		
		AIRBILLS/AIRBILL STICKER					
		11. Present?			X		
		12. Signed?			X		
		13. Dated?			X		
		SAMPLE TAGS					
		14. Does DC-1 list tags as being included?			X		
		15. Present?			X		
		OTHER DOCUMENTS					
		16. Complete?			X		
		17. Legible?			X		
		18. Original?				X	
Over for additional comments.		18a. If "NO", does the copy indicate where original documents are located?			X		

Audited by: Linda Hoffman
Audited by: _____

Signature

Linda Hoffman / ESAT Data Reviewer

Date 03/19/08

Date _____

Printed Name/Title

DC-2



USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 37210
DAS No:

R

Region: 6
Project Code: 129389
Account Code:
CERCLIS ID:
Spill ID:
Site Name/State: JONES RD GW PLUME February 2008/TX
Project Leader: Jennifer Dart
Action:
Sampling Co: Shaw Environmental, Inc.

Date Shipped: 2/8/2008
Carrier Name: UPS
Airbill: 1Z66V0692210005334
Shipped to: KAP
9391 Grogans Mill Rd.,
Suite - A2
Attn: Rao Alsakani
The Woodlands TX 77380
(281) 367-0065

Chain of Custody Record

Sampler Signature:

Relinquished By	(Date / Time)	Received By	(Date / Time)
1	2/8/08 1700		
2			
3			
4			

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F2Q05	Ground Water/ Will Hudgins	L/G	Trace VOA (14)	6381977 (HCL), 6381978 (HCL), 6381979 (HCL) (3)	GL11614	S: 2/8/2008 15:30		-
F2Q06	Ground Water/ Will Hudgins	L/G	Trace VOA (14)	6381974 (HCL), 6381975 (HCL), 6381976 (HCL) (3)	GL11622	S: 2/8/2008 14:55		-
F2Q12	Ground Water/ Jeffery Smith	L/G	Trace VOA (14)	6381890 (HCL), 6381891 (HCL), 6381892 (HCL) (3)	JR11503	S: 2/8/2008 13:36		-
F2Q19	Ground Water/ Jeffery Smith	L/G	Trace VOA (14)	6381893 (HCL), 6381894 (HCL), 6381895 (HCL) (3)	JR11600	S: 2/8/2008 14:46		-
F2Q22	Ground Water/ Jeffery Smith	L/G	Trace VOA (14)	6381899 (HCL), 6381900 (HCL), 6381901 (HCL) (3)	JR11620	S: 2/8/2008 15:26		-
F2Q26	Ground Water/ Randy Clouse	L/G	Trace VOA (14)	6381471 (HCL), 6381472 (HCL), 6381473 (HCL) (3)	JR11655	S: 2/8/2008 15:45		-
F2Q39	Ground Water/ Jane Patin	L/G	Trace VOA (14)	6381026 (HCL), 6381027 (HCL), 6381028 (HCL) (3)	OV11603	S: 2/8/2008 15:00		-
F2Q40	Ground Water/ Jane Patin	L/G	Trace VOA (14)	6381023 (HCL), 6381024 (HCL), 6381025 (HCL) (3)	OV11610	S: 2/8/2008 14:00		-
F2Q56	Ground Water/ Randy Clouse	L/G	Trace VOA (14)	6381502 (HCL), 6381503 (HCL), 6381504 (HCL) (3)	PH11702	S: 2/8/2008 13:50		-
F2Q57	Ground Water/ Randy Clouse	L/G	Trace VOA (14)	6381474 (HCL), 6381475 (HCL), 6381476 (HCL) (3)	PH11713	S: 2/8/2008 14:35		-
F2Q98	Ground Water/ Will Hudgins	L/G	Trace VOA (14)	6381968 (HCL), 6381969 (HCL), 6381970 (HCL) (3)	TH11620	S: 2/8/2008 13:35		-

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: F2QC4	Additional Sampler Signature(s): <i>J. Hudgins</i> <i>J. Hudgins</i>	Chain of Custody Seal Number: <i>SP-02</i>
Analysis Key: Trace VOA = Trace VOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

TR Number: 6-043013577-020808-0014

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4800

REGION COPY



USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 37210

DAS No:

R

Region: 6	Date Shipped: 2/8/2008	Chain of Custody Record		Sampler Signature:
Project Code: 129389	Carrier Name: UPS	Relinquished By	(Date / Time)	Received By (Date / Time)
Account Code: CERCLIS ID:	Airbill: 1266V0692210005334	1	2/8/08 0700	
Spill ID:	Shipped to: KAP 9391 Grogans Mill Rd., Suite - A2 Attn: Rao Alsakani The Woodlands TX 77380 (281) 367-0065	2		
Site Name/State: JONES RD GW PLUME February 2008/TX		3		
Project Leader: Jennifer Dart		4		
Action: Sampling Co: Shaw Environmental, Inc.				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F2QC4	Ground Water/ Jeffery Smith	L/G	Trace VOA (14)	6381884 (HCL), 6381885 (HCL), 6381886 (HCL), 6381887 (HCL), 6381888 (HCL), 6381889 (HCL) (6)	TO11023	S: 2/8/2008 10:56		
F2QJ3	Ground Water/ Jennifer Dart	L/G	Trace VOA (14)	6385074 (HCL), 6385075 (HCL), 6385076 (HCL) (3)	FIELD BLANK 10	S: 2/8/2008 9:15		Field Blank
F2QK7	Ground Water/ Valeri Magnini	L/G	Trace VOA (14)	6385842 (HCL), 6385843 (HCL), 6385844 (HCL) (3)	TRIP BLANK 20	S: 2/8/2008 8:46		Trip Blank
F2QN1	Ground Water/ Jeffery Smith	L/G	Trace VOA (14)	6381801 (HCL), 6381802 (HCL), 6381803 (HCL) (3)	JR11503A	S: 2/8/2008 13:36		Field Duplicate
F2QN2	Ground Water/ Will Hudgins	L/G	Trace VOA (14)	6381971 (HCL), 6381972 (HCL), 6381973 (HCL) (3)	TH11620A	S: 2/8/2008 13:35		Field Duplicate

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: F2QC4	Additional Sampler Signature(s): <i>R. Miller</i> <i>N. Miller</i> JP	Chain of Custody Seal Number:
Analysis Key: Trace VOA = Trace VOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

TR Number: 6-043013577-020808-0014

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Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4600

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 37210

DAS No:

R

Region:	6	Date Shipped:	2/11/2008	Chain of Custody Record		Sampler Signature:
Project Code:	129389	Carrier Name:	UPS			
Account Code:		Airbill:	1Z66V0592210006940			
CERCLIS ID:		Shipped to:	KAP 9391 Grogans Mill Rd., Suite - A2 Attn: Rao Alsakan The Woodlands TX 77380 (281) 367-0065			
Spill ID:						
Site Name/State:	JONES RD GW PLUME February 2008/TX					
Project Leader:	Jennifer Dart					
Action:						
Sampling Co:	Shaw Environmental, Inc.					

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
F2Q20	Ground Water/ Jeffery Smith	L/G	Trace VOA (14)	6381856 (HCL), 6381857 (HCL), 6381858 (HCL) (3)	JR11614-2	S: 2/11/2008 14:17		--
F2Q21	Ground Water/ Jeffery Smith	L/G	Trace VOA (14)	6381859 (HCL), 6381860 (HCL), 6381861 (HCL) (3)	JR11614-3	S: 2/11/2008 14:16		--
F2Q37	Ground Water/ Jane Patin	L/G	Trace VOA (14)	6381195 (HCL), 6381196 (HCL), 6381197 (HCL) (3)	OV11547	S: 2/11/2008 15:10		--
F2Q45	Ground Water/ Jane Patin	L/G	Trace VOA (14)	6381257 (HCL), 6381258 (HCL), 6381259 (HCL), 6381260 (HCL), 6381261 (HCL), 6381262 (HCL) (6)	OV11635	S: 2/11/2008 12:05		--
F2Q46	Ground Water/ Jane Patin	L/G	Trace VOA (14)	6381198 (HCL), 6381199 (HCL), 6381200 (HCL) (3)	OV11642	S: 2/11/2008 14:25		--
F2QC0	Ground Water/ Jeffery Smith	L/G	Trace VOA (14)	6381304 (HCL), 6381305 (HCL), 6381306 (HCL) (3)	TO10903-2	S: 2/11/2008 15:12		--
F2QC1	Ground Water/ Jeffery Smith	L/G	Trace VOA (14)	6381307 (HCL), 6381308 (HCL), 6381309 (HCL) (3)	TO10903-3	S: 2/11/2008 15:11		--
F2QC2	Ground Water/ Jeffery Smith	L/G	Trace VOA (14)	6381310 (HCL), 6381311 (HCL), 6381312 (HCL) (3)	TO10903-4	S: 2/11/2008 15:15		--
F2QC3	Ground Water/ Jeffery Smith	L/G	Trace VOA (14)	6381313 (HCL), 6381314 (HCL), 6381315 (HCL) (3)	TO10903-5	S: 2/11/2008 15:17		--
F2QG7	Ground Water/ Randy Clouse	L/G	Trace VOA (14)	6381511 (HCL), 6381512 (HCL), 6381513 (HCL) (3)	WE10710	S: 2/11/2008 14:50		--

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: F2Q45	Additional Sampler Signature(s): <i>RN Clark</i> <i>JP</i> <i>JP</i> <i>Valerie Moym</i>	Chain of Custody Seal Number:
Analysis Key: Trace VOA = Trace VOA	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?

TR Number: 6-043013577-021108-0017

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4600

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ADDENDUM

CADRE NARRATIVE

National Functional Guidelines Report # 3

23:35 Mon, Feb 25, 2008

Lab KAP (KAP Technologies Inc) SDG F2Q05 Case 37210 Contract EPW05032 Region 6 DDTID 56193 SOW SOM01.2

Data Review Results

Blanks

Blanks	VOA_TRACE
VTLB11	The following trace volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated method blank has common contaminant analyte concentration is less than 2x the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. Methylene chloride F2Q45MS, F2Q45MSD
Blanks	VOA_TRACE
VTLB44	The following trace volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated storage blank has common contaminant analyte concentration is less than 2x the concentration criteria. Detected compounds are qualified U. Nondetected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL. Methylene chloride F2Q45MS, F2Q45MSD

Data Review Results

DMC/Surrogate

DMC/Surrogate	VOA_TRACE
VTDSS2	The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are not qualified. 1,2-Dichlorobenzene-d4 F2QK7, F2QN1 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Chlorobenzene
DMC/Surrogate	VOA_TRACE
VTDSS3	The following trace volatile samples have one or more DMC/SMC recovery values is less than the primary lower limit but greater than or equal to the expanded lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified UJ. Chloroethane-d5 F2Q21 Bromomethane, Carbon disulfide, Chloroethane, Chloromethane, Dichlorodifluoromethane Vinyl chloride-d3 F2Q21 Vinyl chloride
DMC/Surrogate	VOA_TRACE
VTDSS5	The following trace volatile samples have DMC/SMC recoveries below the expanded lower limit of the criteria window. Detected compounds are qualified J. Nondetected compounds are qualified R. Vinyl chloride-d3 F2Q19 Vinyl chloride

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Data Review Results

Detection Limit

Detection Limit	VOA_TRACE
VTDL1	<p>The following volatile samples have analyte concentrations below the quantitation limit (CRQL). Detected compounds are qualified.</p> <p>J. Nondetected compounds are not qualified.</p> <p>F2Q20, F2Q45MS, F2Q45MSD, VBLK09, VBLK20, VBLK25, VBLKTT, VBLKTX, VHBLK01</p> <p>1,2-Dichloroethane F2Q20</p> <p>1,2,4-Trichlorobenzene VBLKTX</p> <p>Methylene chloride F2Q45MS, F2Q45MSD, VBLK09, VBLK20, VBLK25, VBLKTT, VBLKTX, VHBLK01</p> <p>1,2,3-Trichlorobenzene VBLKTX</p>

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Data Review Results

Matrix Spikes

Matrix Spikes	VOA_TRACE
VTMS5	The following trace volatile matrix spike/matrix spike duplicate samples have percent recoveries greater than or equal to the expanded lower acceptance limit but less than the primary lower acceptance limit. Detected compounds are qualified J. Nondetected compounds are qualified UJ.
	Benzene F2Q45MS, F2Q45MSD
	Trichloroethene F2Q45MS, F2Q45MSD

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Data Review Results

TIC

TIC	VOA_TRACE
VTTIC1	A library search indicates a match at or above 85% for a TIC compound in the trace volatile sample. Detected compounds are qualified NJ. Nondetected compounds are not qualified. F2Q06, F2Q20 000141-78-6 F2Q06 000556-67-2 F2Q20
TIC	VOA_TRACE
VTTIC2	A library search indicates a match below 85% for a TIC compound in the trace volatile sample. Detected compounds are qualified J. Nondetected compounds are not qualified. Unknown-01 F2Q05, F2Q06, F2Q12, F2Q19, F2Q20, F2Q21, F2Q22, F2Q26, F2Q37, F2Q39, F2Q40, F2Q45, F2Q46, F2Q56, F2Q57, F2Q98, F2QJ3, F2QK7, F2QN1, F2QN2, VBLK09, VBLK20, VBLK25, VBLKTT, VBLKTV, VBLKTX Unknown-02 F2Q19, F2Q21, VBLKTT Unknown-03 VBLKTT